

# PATENT ABSTRACTS OF JAPAN

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## (54) **MULTI-CARRIER TRANSMISSION DEVICE AND METHOD THEREOF**

(57)Abstract:

**PROBLEM TO BE SOLVED:** To achieve a desired transmission rate without placing a plurality of transmission antennas in some distance.

**SOLUTION:** A stream replicating portion 140-1 replicates as many streams #A as the transmission antennas to be outputted to an adding portion 160-1 and a delay portion 152. A stream replicating portion 140-2 replicates as many streams #B as the transmission antennas to be outputted to the adding portion 160-1 and a delay portion 154. The delay portions 152 and 154 respectively delay transmission timings of the streams #A and #B by delay time determined by a delay time determining portion 158. At this time, the delay times of the streams #A and #B determined by the delay time determining portion 158 are different from each other.

